

**STATEMENT OF BASIS (AI No. 41753)**

for draft Louisiana Pollutant Discharge Elimination System permit No. LA0099007 to discharge to waters of the State of Louisiana.

**THE APPLICANT IS:** Hi-Seas of Dulac, Inc.  
6570 Grand Caillou Rd.  
Dulac, LA 70353

**ISSUING OFFICE:** Louisiana Department of Environmental Quality (LDEQ)  
Office of Environmental Services  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

**PREPARED BY:** Kelli Hamilton

**DATE PREPARED:** January 30, 2007

**1. PERMIT STATUS**

**A. Reason For Permit Action:**

Permit reissuance of a Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5-year term.

**B.** LPDES permit - LPDES permit effective date: June 1, 2002  
LPDES permit expiration date: May 31, 2007  
EPA has not retained enforcement authority.

**C.** Date Application Received: October 20, 2006

**2. FACILITY INFORMATION**

**A. FACILITY TYPE/ACTIVITY - shrimp processing facility**

Shrimp are off loaded from trucks into a feed tank and pumped to four peeling machines. The shrimp are conveyed through the peeling machines using gravity and water flow. Hulled shrimp are segregated by size using a sorting machine. The sorted shrimp are packaged into boxes and frozen prior to shipment.

**B. FEE RATE**

1. Fee Rating Facility Type: minor
2. Complexity Type: II (BPJ points to 0 as per administrative decision)
3. Wastewater Type: II
4. SIC code: 2092

**C. LOCATION -** 6570 Grand Caillou Rd. in Dulac, Terrebonne Parish  
Latitude 29°25'07", Longitude 90°41'58"

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### 3. OUTFALL INFORMATION

#### Outfall 001

Discharge Type: process wastewater  
Treatment: mesh screen  
Location: at the point of discharge from the northwest side (rear) of the building (Latitude 29°25'07", Longitude 90°41'58")  
Flow: 0.18 MGD  
Discharge Route: Bayou Grand Caillou

#### Outfall 002

Discharge Type: treated sanitary wastewater  
Treatment: package aeration plant  
Location: at the point of discharge from the southwest (rear) side of the building (Latitude 29°25'07", Longitude 90°41'58")  
Flow: 0.0006 MGD  
Discharge Route: Bayou Grand Caillou

### 4. RECEIVING WATERS

STREAM - Bayou Grand Caillou

BASIN AND SEGMENT - Terrebonne Basin, Segment 120502

DESIGNATED USES - a. primary contact recreation  
b. secondary contact recreation  
c. propagation of fish and wildlife  
e. oyster propagation

### 5. PROPOSED EFFLUENT LIMITS

BASIS - See Rationale below.

Summary of Proposed Changes From the Current LPDES Permit: Effluent loading limits have increased due to an increase in production at the facility.

### 6. COMPLIANCE HISTORY/COMMENTS

#### A. Compliance History

No records of recent compliance actions were found.

B. DMR Review/Excursions - see attached DMR Summary. "No Discharge" was reported on DMRS for the following months: 4/03, 1/04, 2/04, 3/04, 2/05, 3/05, 4/05, 8/05, 1/06, 2/06, 3/06, and 4/06. No DMRS were submitted for Outfall 002.

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## 7. EXISTING EFFLUENT LIMITS

Outfall 001 -		Outfall 002	
BOD	500:1260 lb/day	BOD	--:45 mg/l
TSS	200:500 lb/day	TSS	--:45 mg/l
Oil and Grease	32:80 lb/day	Fecal Coliform	--:43
pH	6-9	pH	6-9

## 8. ENDANGERED SPECIES

The receiving waterbody, Subsegment 120502 of the Terrebonne Basin is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

## 9. HISTORIC SITES

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

## 10. TENTATIVE DETERMINATION

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in the application.

## 11. PUBLIC NOTICES

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

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Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

**12. STORM WATER POLLUTION PREVENTION PLAN (SWP3) REQUIREMENT**

A SWP3 is included in the permit because in accordance with LAC 33:IX.2511.A.1, storm water shall not be required to obtain and LPDES permit "... except... discharges associated with industrial activity." In accordance with LAC 33:IX.2511.B.14.a-k, facilities classified as SIC code 2092 are considered to have storm water discharges associated with industrial activity.

The SWP3 shall be prepared, implemented, and maintained within (6) months of the effective date of the final permit. The plan should identify potential sources of storm water pollution and ensure the implementation of practices to prevent and reduce pollutants in the storm water discharges associated with industrial activity at the facility (see Narrative Requirements for the AI).

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### Rationale for Hi-Seas of Dulac, Inc.

1. **Outfall 001** process wastewater (estimated flow is 0.18 MGD)

<u>Pollutant</u>	<u>Limitation</u> Mo. Avg:Daily Max (lb/day)	<u>Reference</u>
Flow	Report:Report	LAC 33:IX.2707.I.1.B
BOD <sub>5</sub>	1000:2520	40 CFR 408.125
TSS	400:1000	40 CFR 408.125
Oil&Grease	64:160	40 CFR 408.125
pH (s.u.)	6.0: 9.0 (min:max)	40 CFR 408.125

**Treatment:** mesh screen

**Monitoring Frequency:** 1/month per existing LPDES permit

**Limits Justification:** 40 CFR 408.125

#### Calculations:

BOD 25/63 lb/1000 lb  
 TSS 10/25 lb/1000 lb  
 Oil and Grease 1.6/4 lb/1000 lb  
 per application: 40,000lbs/day  
 BOD  $40 \times 25/63 = 1000/2520$   
 TSS  $40 \times 10/25 = 400/1000$   
 Oil and Grease  $40 \times 1.6/4 = 64/160$

su Standard Units

**Outfall 002**, the discharge of treated sanitary wastewater (estimated flow is 600 gpd).

<u>Pollutant</u>	<u>Limitation</u> Mo. Avg:Weekly Avg (mg/l)	<u>Reference</u>
Flow	Report:Report	See limits justification (2) below
BOD <sub>5</sub>	--:45	See limits justification (1), (2) below
TSS	--:45	See limits justification (1), (2) below
Fecal Coliform	---:43	See limits justification (1), (2) below
pH (s.u.)	6.0:9.0 (min:max)	See limits justification (2) below

**Treatment:** packaged aeration system with chlorination